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File 239: Mathsci 1940-2008/Nov
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Set Items Description

S1 40742 VECTOR??(3N)QUANTIZ????? OR VQ

S2 520351 ALGEBRAIC??
 S3 3584 (VARIABLE OR INCONSTANT OR VARYING)(5N)DIMENSION OR
 VDVQ
 S4 632194 (VARIABLE OR INCONSTANT OR VARYING)(5N)(RESOLUTION
 OR MULT-
 I()RESOLUTION OR MULTIRESOLUTION OR BITRATE OR BIT()RATE)
 OR -
 PYRAMID?? OR (TREE(2N)STRUCTUR??) OR EMBEDDED
 S5 229 AU=(LAMBLIN, C? OR LAMBLIN C? OR VIRETTE D? OR VIRETTE,
 D?
 OR KOVESI, B? OR KOVESI B? OR MASSALOUX, D? OR MASSALOUX
 D?)
 S6 0 S1 AND S2 AND S3 AND S4
 S7 14 S1 AND S3 AND S4
 S8 7 RD (unique items)
 S9 6 S8 NOT PY>2004
 S10 35 S5 AND S1
 S11 9 S10 AND (S3 OR S4 OR S2)
 S12 4 RD (unique items)
 S13 4 S12 NOT S9
 S14 3 S13 NOT PY>2004

^9/3,K/1 (Item 1 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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0015634263 E.I. COMPENDEX No: 2003397648857

Complexity reduced shape VQ of spectral envelope with perception consideration

Wang, Mu-Liang; Yang, Jar-Ferr

Corresp. Author/Affil: Wang, M.-L.: Department of Electrical Engineering,
National Cheng Kung University, 1 University Road, Tainan 70101, Taiwan,
Province of China

Corresp. Author email: jfyang@ee.ncku.edu.tw

Conference Title: 2003 IEEE International Conference on Acoustics,
Speech, and Signal Processing

Conference Location: Hong Kong Hong Kong Conference Date: 20030406-
20030410

E.I. Conference No.: 61464

ICASSP, IEEE International Conference on Acoustics, Speech and Signal
Processing - Proceedings (ICASSP IEEE Int Conf Acoust Speech Signal
Process Proc) (United States) 2003, IEEE 03CH37404, 1/- (788-791)

Publication Date: 20030930

Publisher: Institute of Electrical and Electronics Engineers Inc.

CODEN: IPROD ISSN: 0736-7791

Document Type: Conference Paper; Conference Proceeding Record Type:
Abstract

Treatment: T; (Theoretical); X; (Experimental)

Language: English Summary Language: English

Number of References: 11

Complexity reduced shape VQ of spectral envelope with perception consideration

The parametric coders provide a good communication quality at low bit rate. Efficient encoding of variable dimension harmonic spectral envelope is an essential task in parametric speech coders. In this paper, we propose an efficient vector quantization (VQ) scheme with perception consideration to improve the performance of parametric speech coders. With the benefit of reduction in dimension, the computational complexity of spectral envelope VQ (SEVQ) has been reduced while the speech quality is retained. Experimental results show that the...

Descriptors: Computational complexity; Encoding (symbols); Vector quantization ; Vocoders; *Speech analysis

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0014793263 E.I. COMPENDEX No: 2001226521885

Variable dimension vector quantization based image watermarking
Makur, Anamitra; Sethu Selvi, S.

Corresp. Author/Affil: Makur, A.: Department of ECE, Indian Institute of
Science, Bangalore 560012, India

Corresp. Author email: amakur@ece.iisc.ernet.in

Signal Processing (Signal Process) (Netherlands) 2001, 81/4 (889-893)

Publication Date: 20010503

Publisher: Elsevier

CODEN: SPROD ISSN: 0165-1684

Publisher Item Identifier: S0165168401000263

DOI: 10.1016/S0165-1684(01)00026-3

Document Type: Article; Journal Record Type: Abstract

Treatment: T; (Theoretical)

Language: English Summary Language: English

Number of References: 8

Variable dimension vector quantization based image watermarking

In this paper, we present a watermarking method based on variable
dimension vector quantization for hiding information in images.

Watermark bits are embedded in the dimension information of the
variable dimension reconstruction blocks of the cover or input image.

Watermark extraction does not require the existence...

Descriptors: Feature extraction; Image reconstruction; Watermarking; *
Vector quantization

^ 9/3,K/3 (Item 3 from file: 8)

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0013688033 E.I. COMPENDEX No: 1996473139481

Comparison of different quantization strategies for subband coding of
medical images

Castagno, Roberto; Lancini, Rosa; Egger, Olivier

Corresp. Author/Affil: Castagno, Roberto: Swiss Federal Inst. of
Technology, Lausanne, Switz

Editor(s): Kim, Yongmin

Editor(s) Affil.: University of Washington, Medical Center, Seattle, WA,
United States

Conference Title: Medical Imaging 1996: Image Display

Conference Location: Newport Beach, CA, USA Conference Date: 19960211-
19960213

E.I. Conference No.: 22506

Proceedings of SPIE - The International Society for Optical Engineering (

Proc SPIE Int Soc Opt Eng) 1996, 2707/- (227-238)

Publication Date: 19960101

Publisher: Society of Photo-Optical Instrumentation Engineers

CODEN: PSISD ISSN: 0277-786X ISBN: 0819420824; 9780819420824

Document Type: Conference Paper; Conference Proceeding Record Type: Abstract

Treatment: T; (Theoretical)

Language: English Summary Language: English

Number of References: 15

...oriented review of these techniques. The performance of four quantization methods (namely standard scalar quantization, embedded zerotree, variable dimension vector quantization and pyramid vector quantization) are compared with regard to their application in the field of medical imaging. In addition...

...of major importance to exploit the existing zero-correlation across subbands as proposed with the embedded zerotree wavelet (EZW) algorithm. In this paper an improved EZW-algorithm is used which is termed embedded zerotree lossless (EZL) algorithm - due to the importance of lossless compression in medical imaging applications - having the additional possibility of producing an embedded lossless bitstream. VQ based methods take advantage of statistical properties of a block or a vector of data...

...images at the same bitrates. In this paper, we take in account two classes of VQ methods, random quantizers (VQ) and geometric quantizers (PVQ). Algorithms belonging to the first group (the most widely known being

...on the multidimensional properties of the distribution of the source to code. In particular a pyramid vector quantization has been taken into account. Despite being based on the implicit geometry of independent and...

Identifiers: Embedded zerotree wavelets; Image display; Lossless image compression; Scalar quantization; Subband coding; Wavelet transforms

9/3,K/4 (Item 1 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

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01577430 ORDER NO: AADNN-16985

HARMONIC CODING OF SPEECH AT LOW BIT RATES (COMPRESSION)

Author: LUPINI, PETER

Degree: PH.D.

Year: 1995

Corporate Source/Institution: SIMON FRASER UNIVERSITY (CANADA) (0791)

Source: VOLUME 58/05-B OF DISSERTATION ABSTRACTS INTERNATIONAL.
PAGE 2587. 155 PAGES
ISBN: 0-612-16985-5

...codecs operating at over 4 kb/s.

The SEC system incorporates a new technique for vector quantization of the variable dimension harmonic magnitude vector called Non-Square Transform Vector Quantization (NSTVQ). NSTVQ addresses the problem of variable - dimension vector quantization by combining a fixed-dimension vector quantizer with a set of variable-sized non-square transforms. We discuss the factors which influence...

...control over the tradeoff between complexity and distortion, simpler uses of vector prediction techniques, inherent embedded coding. Experimental results show that NSTVQ out-performs several existing techniques in terms of providing...

9/3,K/5 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2008 Institution of Electrical Engineers. All rts. reserv.

08769160 INSPEC Abstract Number: B2003-12-6130C-009

Title: Complexity reduced shape VQ of spectral envelope with perception consideration

Author(s): Mu-Liang Wang; Jar-Ferr Yang

Author Affiliation: Dept. of Electr. Eng., Nat. Cheng Kung Univ., Tainan, Taiwan

Conference Title: 2003 IEEE International Conference on Acoustics, Speech, and Signal Processing (Cat. No.03CH37404) Part vol.1 p. I-788-91 vol.1

Publisher: IEEE, Piscataway, NJ, USA

Publication Date: 2003 Country of Publication: USA 6 vol.(xcviii+927+852+788+883+823+764) pp.

ISBN: 0 7803 7663 3 Material Identity Number: XX-2002-01306

U.S. Copyright Clearance Center Code: 0-7803-7663-3/03/\$17.00

Conference Title: Proceedings of International Conference on Acoustics, Speech and Signal Processing (ICASSP'03)

Conference Sponsor: IEEE Signal Process, Soc

Conference Date: 6-10 April 2003 Conference Location: Hong Kong, China

Language: English

Subfile: B

Copyright 2003, IEE

Title: Complexity reduced shape VQ of spectral envelope with perception consideration

Abstract: The parametric coders provide a good communication quality at

low bit rate. Efficient encoding of variable dimension harmonic spectral envelope is an essential task in parametric speech coders. In this paper, we propose an efficient vector quantization (VQ) scheme with perception consideration to improve the performance of parametric speech coders. With the benefit of reduction in dimension, the computational complexity of spectral envelope VQ (SEVQ) has been reduced while the speech quality is retained. Experimental results show that the...

...Identifiers: variable dimension harmonic spectral envelope...

... vector quantization ; ...

...spectral envelope VQ ;

^9/3,K/6 (Item 1 from file: 34)

DIALOG(R)File 34;SciSearch(R) Cited Ref Sci

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04982064 Genuine Article#: UX196 No. References: 9

Title: VARIABLE - DIMENSION VECTOR QUANTIZATION

Author(s): DAS A; RAO AV; GERSHO A

Corporate Source: UNIV CALIF SANTA BARBARA,DEPT ELECT & COMP ENGN/SANTA

BARBARA//CA/93106

Journal: IEEE SIGNAL PROCESSING LETTERS, 1996, V3, N7 (JUL), P200-202

ISSN: 1070-9908

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

Title: VARIABLE - DIMENSION VECTOR QUANTIZATION

...Abstract: represented by a sequence of random vectors with varying dimensionality. Frequently, the generation of such variable - dimension vectors can be modeled as a random sampling of another signal vector with a large but fixed dimension . Efficient quantization of these variable - dimension vectors is a challenging task and a critical issue in speech coding algorithms based on...

...introduce a simple and effective formulation of the problem and present a novel technique, called variable - dimension vector quantization (VDVQ), where the input variable - dimension vector is directly quantized with a single universal codebook. The application of VDVQ to low bit-rate speech coding demonstrates significant gain in subjective quality as well as...

Research Fronts: 94-0623 001 (TIME-FREQUENCY DISTRIBUTIONS; DOPPLER SIGNALS; TREE - STRUCTURED VECTOR QUANTIZATION ; SPEECH CODING;

ADAPTIVE KERNEL DESIGN; COMPRESSION OF DIGITAL IMAGES)

?

^ 14/3,K/1 (Item 1 from file: 8)
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0012288231 E.I. COMPENDEX No: 1988110155216
ROBUST AND FAST CELP CODER AT 16 KBIT/S.
Guyader, A.Le; Massaloux, D. ; Zurcher, F.
Corresp. Author/Affil: Guyader, A.Le: Centre Natl d'Estudes des,
Telecommunications, Lannion, Fr, Centre Natl d'Estudes des
Telecommunications, Lannion, Fr
Speech Communication (Speech Commun) 1988, 7/2 (217-226)
Publication Date: 19880101
CODEN: SCOMD ISSN: 0167-6393
DOI: 10.1016/0167-6393(88)90041-6
Document Type: Article; Journal Record Type: Abstract
Treatment: T; (Theoretical); X; (Experimental)
Language: English Summary Language: English

Guyader, A.Le; Massaloux, D. ; Zurcher, F.
...is developed for transmission and its connection with other predictive
coding schemes as well as vector quantization is clarified. At a rate
of one bit per sample a codebook composed of 2...

...the codebook is shown to have an inherent robustness against
transmission errors and its internal algebraic structure leads to
efficient and fast algorithms for selecting the optimum excitation. Both
objective and...

Identifiers: CODE-EXCITED LINEAR PREDICTIVE (CELP) CODER; FAST
ALGORITHM;
INHERENT ROBUSTNESS; PREDICTIVE CODING; TRANSMISSION ERRORS;
VECTOR
QUANTIZATION

^ 14/3,K/2 (Item 2 from file: 8)
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0012284291 E.I. COMPENDEX No: 1988110151098
Spherical Vector Quantization Algorithm Based on an Eight Dimensional
Gosset Lattice.
ALGORITHME DE QUANTIFICATION VECTORIELLE SPHERIQUE A PARTIR
DU RESEAU DE

GOSSET D'ORDRE 8.

Lamblin, Claude ; Adoul, Jean-Pierre
Corresp. Author/Affil: Lamblin, Claude : CNET, Lannion, Fr, CNET,
Lannion, Fr
Annales des Telecommunications/Annals of Telecommunications (Ann
Telecommun) 1988, 43/3-4 (172-186)
Publication Date: 19880101
CODEN: ANTEA ISSN: 0003-4347
Document Type: Article; Journal Record Type: Abstract
Treatment: A; (Applications); T; (Theoretical)
Language: French Summary Language: English

Spherical Vector Quantization Algorithm Based on an Eight Dimensional
Gosset Lattice.

Lamblin, Claude ; Adoul, Jean-Pierre
Corresp. Author/Affil: Lamblin, Claude : CNET, Lannion, Fr, CNET,
Lannion, Fr
...applications both for the design of waveform quantizers and the design
of modulation signal sets. Algebraic spherical vector quantization is
a technique recently proposed for speech coding applications. It makes use
of spherical subsets from regular point lattices. The article concerns
itself with algebraic spherical vector quantization based on the
so-called Gosset lattice in eight dimensions. An optimal algorithm is
detailed...

...and compared to the information theory limits. Comparing the merits of
the statistical and the algebraic approaches to vector quantization
leads to the design of hybrid structures which can combine these two
techniques.

Identifiers: ALGEBRAIC METHODS; ALGEBRAIC SPHERICAL VECTOR
QUANTIZATION ; FAST ALGORITHMS; GOSSET LATTICE; STATISTICAL
TECHNIQUES;
VECTOR QUANTIZATION

^14/3,K/3 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC
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04230710 INSPEC Abstract Number: B88066311
Title: A robust and fast CELP coder at 16 kbit/s
Author(s): Le Guyader, A.; Massaloux, D. ; Zurcher, F.
Author Affiliation: CNET, Lannion, France
Journal: Speech Communication vol.7, no.2 p.217-26
Publication Date: July 1988 Country of Publication: Netherlands
CODEN: SCOMDH ISSN: 0167-6393

U.S. Copyright Clearance Center Code: 0167-6393/88/\$3.50

Language: English

Subfile: B

Author(s): Le Guyader, A.; Massaloux, D. ; Zurcher, F.

...Abstract: developed for transmission purposes and its connection with other predictive coding schemes as well as vector quantization is clarified. At a rate of one bit per sample a codebook composed of 2...

... the codebook is shown to have an inherent robustness against transmission errors and its internal algebraic structure leads to efficient and fast algorithms for selecting the optimum excitation. Both objective and...

...Identifiers: vector quantization ; ...

...internal algebraic structure

?

Patent Bib Files:-

File 344:Chinese Patents Abs Jan 1985-2006/Jan

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File 347:JPIO Dec 1976-2007/Dec(Updated 080328)

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File 350:Derwent WPIX 1963-2008/UD=200863

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Set	Items	Description
S1	3021	VECTOR??(3N)QUANTIZ?????? OR VQ
S2	3608	ALGEBRAIC??
S3	1453	(VARIABLE OR INCONSTANT OR VARYING)(5N)DIMENSION OR VDVQ
S4	211304	(VARIABLE OR INCONSTANT OR VARYING)(5N)(RESOLUTION OR MULT-
		I)RESOLUTION OR MULTIREOLUTION OR BITRATE OR BIT(RATE)
OR -		PYRAMID?? OR (TREE(2N)STRUCTUR??) OR EMBEDDED
S5	49	AU=(LAMBLIN, C? OR LAMBLIN C? OR VIRETTE D? OR VIRETTE,
D?		OR KOVESI, B? OR KOVESI B? OR MASSALOUX, D? OR MASSALOUX
D?)		
S6	0	S1 AND S2 AND S3 AND S4
S7	1	S1 AND S3 AND S4
S8	1	S5 AND S1 AND (S2 OR S3 OR S4)
S9	0	S8 NOT S7

7/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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0015299191 - Drawing available
WPI ACC NO: 2005-649366/200566
XRPX Acc No: N2005-531963

Impulsion dictionary for compression coding and/or decoding device, has union of totality of code-vectors produced by inserting units into smaller dimension code-vectors according to set of fixed insertion rules
Patent Assignee: FRANCE TELECOM (ETFR); FRANCE TELECOM SA (ETFR)
Inventor: KOVESI B; LAMBLIN C; MASSALOUX D; VIRETTE D
Patent Family (8 patents, 107 countries)

Patent		Application				
Number	Kind	Date	Number	Kind	Date	Update
WO 2005083889	A1	20050909	WO 2004FR219	A	20040130	200566 B
EP 1709743	A1	20061011	EP 2004706703	A	20040130	200667 E
			WO 2004FR219	A	20040130	
KR 2006129417	A	20061215	WO 2004FR219	A	20040130	200737 E
			KR 2006717487	A	20060829	
MX 2006008536	A1	20061101	WO 2004FR219	A	20040130	200737 E
			MX 20068536	A	20060728	
CN 1906855	A	20070131	CN 200480041141	A	20040130	200740 E
			WO 2004FR219	A	20040130	
IN 200602025	P2	20070518	WO 2004FR219	A	20040130	200748 E
			IN 2006KN2025	A	20060718	
US 20070162236	A1	20070712	WO 2004FR219	A	20040130	200748 E
			US 2006587907	A	20060727	
JP 2007523530	W	20070816	WO 2004FR219	A	20040130	200755 E
			JP 2006550218	A	20040130	

Priority Applications (no., kind, date): WO 2004FR219 A 20040130

Patent Details

Number	Kind	Lan	Pg	Dwg	Filing	Notes
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WO 2005083889	A1	EN	113	8		
National Designated States,Original: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW						

Regional Designated States,Original: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT RO SD SE SI

SK SL

SZ TR TZ UG ZM ZW

EP 1709743 A1 FR PCT Application WO 2004FR219

Based on OPI patent WO 2005083889

Regional Designated States, Original: AT BE BG CH CY CZ DE DK EE ES FI FR

GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

KR 2006129417 A KO PCT Application WO 2004FR219

Based on OPI patent WO 2005083889

MX 2006008536 A1 ES PCT Application WO 2004FR219

Based on OPI patent WO 2005083889

CN 1906855 A ZH PCT Application WO 2004FR219

IN 200602025 P2 EN PCT Application WO 2004FR219

US 20070162236 A1 EN PCT Application WO 2004FR219

JP 2007523530 W JA 56 PCT Application WO 2004FR219

Based on OPI patent WO 2005083889

Original Titles:

...DIMENSIONAL VECTOR AND VARIABLE RESOLUTION
QUANTISATION...

...Dimensional vector and variable resolution quantization

...

...DIMENSIONAL VECTOR AND VARIABLE RESOLUTION QUANTISATION

Original Publication Data by Authority

Argentina

Assignee name & address:

Original Abstracts:

...invention relates to compression coding and/ or decoding of digital signals, in particular by vector variable -rate quantisation defining a variable resolution . For this purpose an impulsion dictionary comprises: for a given dimension, increasing resolution dictionaries imbricated...

...invention relates to compression coding and/or decoding of digital signals, in particular by vector variable -rate quantisation defining a variable resolution . For this purpose an impulsion dictionary comprises: for a given dimension, increasing resolution dictionaries imbricated...

...invention relates to compression coding and/ or decoding of digital signals, in particular by vector variable -rate quantisation defining a variable resolution . For this purpose an impulsion dictionary comprises: for a given dimension, increasing resolution dictionaries imbricated...

...et/ou decodage en compression de signaux numeriques, en particulier par quantification vectorielle a debit variable definissant une resolution variable . Elle vise a cet effet un dictionnaire a impulsions comportant d'une part, pour une...

Claims:

1. A dictionary comprising codevectors of variable dimension and intended to be used in a device for compression coding and/or decoding of digital signals, by vector quantization at variable rate defining a variable resolution , wherein on the one hand, for a given dimension, inter- embedded dictionaries of increasing resolution, and, on the other hand, for a given dimension, a union...

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File 553: Wilson Bus. Abs. 1982-2008/Sep
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File 239: Mathsci 1940-2008/Nov
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Set Items Description

S1 40742 VECTOR??(3N)QUANTIZ?????? OR VQ

S2 520351 ALGEBRAIC??

S3 3584 (VARIABLE OR INCONSTANT OR VARYING)(5N)DIMENSION OR
VDVQ

S4 632194 (VARIABLE OR INCONSTANT OR VARYING)(5N)(RESOLUTION
 OR MULT-
 I()RESOLUTION OR MULTIRESOLUTION OR BITRATE OR BIT()RATE)
 OR -
 PYRAMID?? OR (TREE(2N)STRUCTUR??) OR EMBEDDED
 S5 229 AU=(LAMBLIN, C? OR LAMBLIN C? OR VIRETTE D? OR VIRETTE,
 D?
 OR KOVESI, B? OR KOVESI B? OR MASSALOUX, D? OR MASSALOUX
 D?)
 S6 537040 ALGEBRAIC?????
 S7 0 S1 AND S6 AND S3 AND S4

File 275:Gale Group Computer DB(TM) 1983-2008/Sep 25
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File 47:Gale Group Magazine DB(TM) 1959-2008/Sep 23
(c) 2008 Gale/Cengage

File 621:Gale Group New Prod.Annou.(R) 1985-2008/Sep 16
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File 160:Gale Group PROMT(R) 1972-1989
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File 75:TGG Management Contents(R) 86-2008/Sep W2
(c) 2008 Gale/Cengage

File 80:TGG Aerospace/Def.Mkts(R) 1982-2008/Sep 29
(c) 2008 Gale/Cengage

File 88:Gale Group Business A.R.T.S. 1976-2008/Oct 06
(c) 2008 Gale/Cengage

File 112:UBM Industry News 1998-2004/Jan 27

(c) 2004 United Business Media

File 141:Readers Guide 1983-2008/Aug

(c) 2008 The HW Wilson Co

File 587:Jane's Defense&Aerospace 2008/Sep W1

(c) 2008 Jane's Information Group

Set Items Description

S1 3818 VECTOR??(3N)QUANTIZ?????? OR VQ

S2 13793 ALGEBRAIC??

S3 1041 (VARIABLE OR INCONSTANT OR VARYING)(5N)DIMENSION OR
VDVQ

S4 1129602 (VARIABLE OR INCONSTANT OR VARYING)(5N)(RESOLUTION
OR MULT-

I()RESOLUTION OR MULTIREOLUTION OR BITRATE OR BIT()RATE)

OR -

PYRAMID?? OR (TREE(2N)STRUCTUR??) OR EMBEDDED

S5 2 AU=(LAMBLIN, C? OR LAMBLIN C? OR VIRETTE D? OR VIRETTE,
D?

OR KOVESI, B? OR KOVESI B? OR MASSALOUX, D? OR MASSALOUX

D?)

S6 14968 ALGEBRAIC??????

S7 0 S1 AND S6 AND S3 AND S4

S8 0 S1(S)S3(S)S4

S9 3 S1 AND S3 AND S4

S10 3 RD (unique items)

S11 0 S5 AND S1

10/3,K/1 (Item 1 from file: 9)
DIALOG(R)File 9:Business & Industry(R)
(c) 2008 Gale/Cengage. All rts. reserv.

04080167 Supplier Number: 152633292 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Sequential activity profiling: latent Dirichlet allocation of Markov
chains.

Data Mining and Knowledge Discovery, v 10, n 3, p 175
May 2005
DOCUMENT TYPE: Journal
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 8300

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...example the creation and formatting of a table or the insertion and
editing of an embedded object. In such a case there may be intra-sequence
heterogeneity over interleaved common dynamic...Simulation, 32(4):215-221.

Ross, D.A. and Zemel, R.S. 2003. Multiple-cause vector quantization . In
Advances in Neural Information Processing Systems 15, S. Becker, S. Thrun
and K. Obermayer...

...sequence of observed symbols
L Length of a sequence
N Number of observed sequences
K Dimension of Dirichlet variable which
represents the number of behavioral
traits...

10/3,K/2 (Item 1 from file: 88)
DIALOG(R)File 88:Gale Group Business A.R.T.S.
(c) 2008 Gale/Cengage. All rts. reserv.

05748165 SUPPLIER NUMBER: 73580370
Optimizing Memory Usage in the Polyhedral Model.
QUILLERE, FABIEN; RAJOPADHYE, SANJAY
ACM Transactions on Programming Languages & Systems, 22, 5, 773
Sept. 2000
ISSN: 0164-0925 LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 18088 LINE COUNT: 01518

... MATHEMATICAL EXPRESSION NOT REPRODUCIBLE IN ASCII).

Hence there exists an integral x such that $x = Vq$. Since V is unimodular, q must also be integral.

Only if part. Conversely, for any...function (Mem.sub.f) would allocate a one-dimensional memory array, of size N , for variable f . We recall that the dimension of the projection is our primary criterion. A second-order optimization should seek to minimize...For example, a vector (a variable with a one-dimensional domain) may need to be embedded in a two-dimensional space (say, if the schedule is two-dimensional due to the...projections are restricted to only canonic directions.

In the context of compiling multimedia applications for embedded systems, De Greef and Catthoor (1996; 1997) have proposed strategies to reduce memory requirements for...Feautrier method does array expansion "judiciously" (only when it is necessary, as indicated by the variable lifetime). However, the expansion dimension corresponds to the indices of the original loop indices. In other words in the vocabulary...CATTHOOR, F., AND DE MAN, H. 1997. Memory size reduction through storage order optimization for embedded parallel multimedia applications. In *Parallel Processing and Multimedia*. Geneva, Switzerland.

FEAUTRIER, P. 1988. Parametric integer...

10/3,K/3 (Item 2 from file: 88)
DIALOG(R)File 88:Gale Group Business A.R.T.S.
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05651562 SUPPLIER NUMBER: 69434545
A Cost Model for Query Processing in High Dimensional Data Spaces.
BOHM, CHRISTIAN
ACM Transactions on Database Systems, 25, 2, 129
June, 2000
ISSN: 0362-5915 LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 18172 LINE COUNT: 01447

... directly related to R-trees are the (LSD.sup.h)-tree (Henrich 1994) and the Pyramid technique (Berchtold 1998). The Hybrid tree (Chakrabarti and Mehrotra 1999) combines the properties of data...presented a new cost model for processing nearest-neighbor queries in the context of a vector quantization application domain. Arya, Mount, and Narayan restricted their model to the maximum metric and neglected...

...al. (1998) adapt the BBKK cost model to estimate the page accesses of the M-tree, an index structure for data spaces which are metric spaces but not vector spaces (i.e., only the...impact of the MBR effect. The left diagram shows the compensation factor for a fixed dimension $d = 16$ with varying capacity ($C_{sub,eff}$). The strongest MBR effect occurs for low capacities. For a typical...

...right diagram shows the compensation factor for a fixed effective page capacity (30 points) and varying dimension. Most compensation is necessary for large dimensions.

(Figure 4 ILLUSTRATION OMITTED)

3.3 Expected Number...completely covered with data points. Instead, all points are clustered on a lower dimensional area embedded in the data space. An example is shown in Figure 21, where all data points are located on a 1-dimensional line embedded in the 2-dimensional data space. As depicted, the line is not necessarily a straight...Data Warehousing and Knowledge Discovery.

BERCHTOLD, S., BOHM, C., AND KRIEGEL, H. -P. 1998. The pyramid-technique: Towards indexing beyond the curse of dimensionality. In Proceedings of the ACM SIGMOD Conference...

...Munich, Munich.

BERCHTOLD, S., KEIM, D. A., AND KRIEGEL, H.-P. 1996. The X-tree: An index structure for high-dimensional data. In Proceedings of the 22nd International Conference on Very Large Data Bases...German Conference on Bioinformatics (Cologne, Germany).

KATAYAMA, N. AND SATOH, S. 1997. The SR-tree: an index structure for high-dimensional nearest neighbor queries. In Proceedings of the International ACM Conference on Management of...
...NY, 11-28.

LIN, K-I., JAGADISH, H., AND FALOUTSOS, C. 1994. The TV-tree-- An index structure for high dimensional data. VLDB J. 3 (Oct.), 517-542.

MANDELBROT, B. 1977. Fractal Geometry of Nature. W. H. Freeman and Co., New York, NY.

MEHROTRA, G. 1999. The hybrid tree: An index structure for high dimensional feature spaces. In Proceedings of the 15th International IEEE Conference on Data Engineering...